

For use in USHazardous (Classified) Location

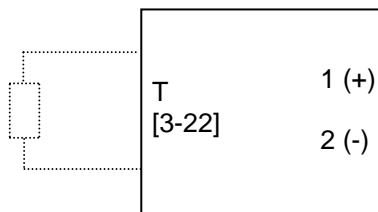
IS (Entity) Class I, Division 1, Groups C, D
or Class I, Zone 1, AEx ia IIB T4 Ga
or NI Class I, Division 2, Groups C, D

Nonhazardous Location

Endress+Hauser Yamanashi Co.,Ltd.
NMT539-70.... (FMus)

Associated apparatus

Temperature
measurement circuit
(not include in
NMT539-70....;
Converter only
version)



Supply and
Interface circuits

Entity and Nonincendive Field Wiring Parameters
prothermo NMT 539-70cdef
for terminals 1 (+), 2 (-)

$U_i = V_{max} = 30 \text{ V}$
 $I_i = I_{max} = 120 \text{ mA}$
 $P_i = P_{max} = 1 \text{ W}$
 $C_i = 6.6 \text{ nF}$
 $L_i = 48 \text{ } \mu\text{H}$

$U_o = V_{oc} \leq 30 \text{ V}$
 $I_o = I_{sc} \leq 120 \text{ mA}$
 $P_o = P_{max} \leq 1 \text{ W}$
 $C_a \geq 6.6 \text{ nF} + C_{cable}$
 $L_a \geq 48 \text{ } \mu\text{H} + L_{cable}$

for terminals T[3-22] (temperature measurement circuit)


$U_o = V_{max} = 8.6 \text{ V}$
 $I_o = I_{max} = 71 \text{ mA}$
 $P_o = P_{max} = 153 \text{ mW}$
 $C_o = 9.5 \text{ } \mu\text{F}$
 $L_o = 7.5 \text{ mH}$

Notes

- The nonintrinsically safe terminals (supply and interface circuit) must not be connected to any device that uses or generates more than 250 V rms or dc unless it has been determined that the voltage has been adequately isolated.
- The installation must be in accordance with the National Electrical Code ANSI/NFPA 70 article 504 and ANSI/NFPA RP 12.6
- FM Entity approved associated apparatus necessary. Used in a configuration where associated apparatus U_o does not exceed U_i of the prothermo NMT539-70... and associated apparatus I_o does not exceed I_i of the prothermo NMT539-70... C_i of the prothermo NMT539-70... plus capacitance of interconnecting wiring may not exceed associated apparatus C_o . L_i of the prothermo NMT539-70... plus inductance of interconnecting wiring may not exceed associated apparatus L_o .
- For use in Class I, Division 2 location, rigid metal conduit is required if not installed in accordance with the nonincendive field wiring principles outlined with the National Electrical Code ANSI/NFPA 70 article 501 and ANSI/NFPA RP 12.6.

Warning:

- Substitution of components may impair intrinsic safety. For installation, maintenance or operation instructions see Instruction Manual.
- Don't modify parts and circuits of this instrument.

REV	DATE	CONTENTS	REVISED	<div>基</div> PPROVED	SCALE	ESTABLISH DATE		
					<div>/</div>	22 Feb. 2007		
						APPROVED	CHECK	DESIGN
2	25 Jan. 17	Add "For use in US", etc.	H.Mizokuni			<div>基</div>	<div>/</div>	<div>H. Mizokuni</div>
1	01 Jan. 08	Company name change	H.Mizokuni	PAGE				
Endress+Hauser 		TITLE			1 / 1			
Endress+Hauser Yamanashi Co.,Ltd.		Control drawing for NMT539-70... (FMus) (Converter only version)				<div>基</div> NO	Ex461-851	Rev 2